

Substitute for form 1449A/PTO (modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number

10/739439

Filing Date

December 18, 2003

First Named Inventor

Rosenflanz, Anatoly Z.

Art Unit

1755

Examiner Name

Attorney Case Number

58797US002



U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
✓	A1	US- 659,926	10/16/1900	Jacobs	
✓	A2	US- 906,339	12/08/1908	Tone	
✓	A3	US- 960,712	06/07/1910	Saunders	
✓	A4	US- 1,037,999	09/10/1912	Saunders	
✓	A5	US- 1,107,011	08/11/1914	Allen	
✓	A6	US- 1,149,064	08/03/1915	Kalmus	
✓	A7	US- 1,161,620	11/23/1915	Coulter	
✓	A8	US- 1,192,709	07/25/1916	Tone	
✓	A9	US- 1,240,490	09/18/1917	Saunders et al.	
✓	A10	US- 1,247,337	11/20/1917	Saunders et al.	
✓	A11	US- 1,257,356	02/26/1918	Hutchins	
✓	A12	US- 1,263,708	04/23/1918	Saunders et al.	
✓	A13	US- 1,263,709	04/23/1918	Saunders et al.	
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✓	A15	US- 1,268,532	06/04/1918	Allen	
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✓	A19	US- 1,402,714	01/03/1922	Brockbank	
✓	A20	US- 1,448,586	03/13/1923	Allen	
✓	A21	US- 1,910,444	05/23/1933	Nicholson	
✓	A22	US- 2,000,857	05/07/1935	Masin	
✓	A23	US- 2,424,645	07/29/1947	Baumann, Jr. et al.	
✓	A24	US- 2,618,567	11/18/1952	Comstock, III	
✓	A25	US- 2,958,593	11/01/1960	Hoover et al.	
✓	A26	US- 2,961,296	11/22/1960	Fenerty	
✓	A27	US- 3,041,156	06/26/1962	Rowse et al.	
✓	A28	US- 3,141,747	07/21/1964	Marshall	

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✓	A86	US- 4,881,951	11/21/1989	Wood et al.	
✓	A87	US- 4,898,587	02/06/1990	Mera	
✓	A88	US- 4,898,597	02/06/1990	Hay et al.	
✓	A89	US- 4,960,441	10/02/1990	Pellow et al.	
✓	A90	US- 4,997,461	03/05/1991	Markhoff-Matheny et al.	
✓	A91	US- 5,007,943	04/16/1991	Kelly et al.	
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✓	A94	US- 5,011,508	04/30/1991	Wald et al.	
✓	A95	US- 5,013,696	05/07/1991	Greskovich et al.	
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✓	A101	US- 5,094,672	03/10/1992	Giles, Jr. et al.	
✓	A102	US- 5,110,332	05/05/1992	Isaksson	
✓	A103	US- 5,118,326	06/02/1992	Lee et al.	
✓	A104	US- 5,131,926	07/21/1992	Rostoker et al.	
✓	A105	US- 5,139,978	08/18/1992	Wood	
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✓	A114	US- 5,259,147	11/09/1993	Falz et al.	
✓	A115	US- 5,273,566	12/18/1993	Balcar et al.	
✓	A116	US- 5,282,875	02/01/1994	Wood et al.	
✓	A117	US- 5,312,789	05/17/1994	Wood	
✓	A118	US- 5,336,280	08/09/1994	Dubots et al.	
✓	A119	US- 5,352,254	10/04/1994	Celikkaya	
✓	A120	US- 5,366,523	11/22/1994	Rowenhorst et al.	
✓	A121	US- 5,372,620	12/13/1994	Rowse et al.	
✓	A122	US- 5,376,470	12/27/1994	Sprouse	
✓	A123	US- 5,378,251	01/03/1995	Culler et al.	
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✓	A127	US- 5,427,595	06/27/1995	Pihl et al.	
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✓	A132	US- 5,496,386	03/05/1996	Broberg et al.	
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First Named Inventor

Rosenflanz, Anatoly Z.

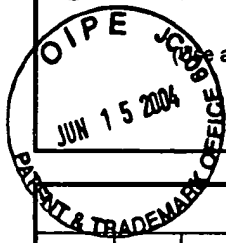
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✓	A143	US- 5,653,775	08/05/1997	Plovnick et al.	
✓	A144	US- 5,665,127	09/09/1997	Moltgen et al.	
✓	A145	US- 5,679,067	10/21/1997	Johnson et al.	
✓	A146	US- 5,725,162	03/10/1998	Garg et al.	
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✓	A171	US- 6,582,488	06/24/2003	Rosenflanz	
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✓	B3	DE	20 34 011	07/09/1970			X
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✓	B5	EP	0 291 029 A1	11/17/1988			
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✓	B21	JP	200045128A	02/15/2000			X Machine
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✓	B23	JP	06 040765A	2/15/1994			X Machine
✓	B24	JP	59 22 7726A	12/21/1984			X Machine

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		Ctry. Code	Number-KindCode (if known)				
	B25	JP	2001294480	10/23/2001			X Machine
	B26	Hei	11-189926	07/13/1999			X Machine
	B27	Hei	4-119941	04/21/1992			X
	B28	S	63-156024	06/29/1988			X
	B29	S	63-303821	12/28/1988			X
	B30	WO	94/14722	07/07/1994			
	B31	WO	97/16385	05/09/1997			
	B32	WO	97/25284	07/19/1997			
	B33	WO	00/34201	06/15/2000			X
	B34	WO	01/16047 A2	03/08/2001			
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	B36	WO	01/23323 A1	04/05/2001			
	B37	WO	01/27046 A1	04/19/2001			
	B38	WO	01/56946 A	08/09/2001			
	B39	WO	01/56947 A	08/09/2001			
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	B43	SU	1455569	10/04/1996			X

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	C1	Aguilar, E.A., "Processing and crystallization of rapidly solidified Al_2O_3 - Y_2O_3 fibres", British Ceramic Transactions; 2000, Vol. 99, No. 6, pp. 256-259.
	C2	Brewer, Luke N. et al., "Interface modification for increased fracture toughness in reaction-formed yttrium aluminum garnet/alumina eutectic composites," 1999, Vol. 14, No. 10, pp. 3907-3912.
	C3	Brockway et al. "Rapid Solidification of Ceramics a Technology Assessment", <u>Metals and Ceramics Information Center</u> , MCIC Report, January 1984 MCIC 84-49

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	C4	Chen, Zan-Hwey et al., "Microstructures of laser-treated Al ₂ O ₃ -ZrO ₂ -CeO ₂ composites," <u>Materials Science & Engineering A (Structural Materials: Properties, Microstructure and Processing)</u> , 1995, Vol. A196, No. 1-2, pp. 253-260.
	C5	"China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals, August, 1997, 1 page.
	C6	"China's Rare Earth Export Quota Set at 45,000 Tons", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; Asia Pulse, 1/9/01, 1 page.
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	C9	Coutures et al., "PRODUCTION AND STUDIES OF ALUMINA BASED REFRACTORY GLASS," <u>Mat. Res. Bull.</u> , Vol. 10, No. 6, 1975, pp 539-546.
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	C12	Figs. 311, 346, 350, 354-56, 373, and 716, <u>Phase Diagrams For Ceramists</u> , The American Ceramic Society, 1964, pp. 122, 136, 138, 140, 144, 248.
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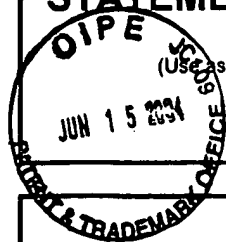
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	C24	Isobe, T. et al., "Microstructure and Thermal Stability of $\text{Al}_2\text{O}_3\text{/Y}_3\text{Al}_5\text{O}_{12}$ (YAG) Eutectic Composite Prepared by an Arc Discharge Method", <u>J. Ceram. Soc. Jap.</u> , 109, [1], 2001, pp. 66-70, Abstract in English.
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	C27	Kondrashov V I et al., "Opacified Glass "Decorit" Synthesis Directions", <u>Steklo i Keramika</u> 2001, No. 1, pages 8-11. Title translated by Keramika as "Aspects of Synthesis of Decorite Opacified Glass".
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	C30	Lakiza et al., "The Liquidus Surface In The $\text{Al}_2\text{O}_3\text{-ZrO}_2\text{-Y}_2\text{O}_3$ Phase Diagram", <u>Powder Metallurgy and Metal Ceramics</u> , Vol. 33, No. 11-12, 1994, pp. 595-597.
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	C36	McKittrick, Joanna, et al., "Non-stoichiometry and defect structures in rapidly solidified $\text{MgO-Al}_2\text{O}_3\text{-ZrO}_2$ ternary eutectics," <u>Materials Science and Engineering A231</u> (1997) 90-97.
	C37	McMillan, P.W., <u>Glass-Ceramics</u> , Academic Press, Inc., 2 nd Edition (1979)

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	C69	U.S. Patent Application entitled "Fused Al_2O_3 - Y_2O_3 - ZrO_2 Eutectic Abrasive Particles, Abrasive Articles, And Methods Of Making And Using The Same", filed July 19, 2000, Rosenflanz having U.S. Serial No. 09/618,876 (Attorney Docket No. 55763US002).
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	C71	U.S. Patent Application entitled "Methods of Making Ceramic Particles," filed February 5, 2003, Rosenflanz, having a U.S. Serial No. 10/358772 (Attorney Docket No. 58257US002)
	C72	U.S. Patent Application entitled "Methods of Making Ceramics", filed February 5, 2003, Anderson et al., having a U.S. Serial No. 10/358765 (Attorney Docket No. 58258US002)
	C73	U.S. Patent Application entitled "Ceramics and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358910 (Attorney Docket No. 58325US002)
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	C77	U.S. Application entitled "Use of Glasses Containing Rare Earth Oxide, Alumina, and Zirconia And Dopant In Optical Waveguides", filed April 28, 2003, having U.S. Serial No. 10/425,039 (Attorney Docket No. 58435US002)
	C78	U.S. Application entitled " Methods of Making Ceramic Particles", filed September 5, 2003, having U.S. Serial No. 10/655729 (Attorney Docket No. 58790US002)
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	C81	U.S. Application entitled "Ceramics Comprising Al_2O_3 , REO, ZrO_2 and/or HfO_2 , and Nb_2O_5 and/or Ta_2O_5 , and Methods of Making The Same", filed September 18, 2003, having U.S. Serial No. 10/666212 (Attorney Docket No. 58807US002)
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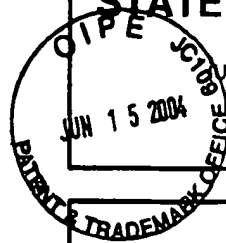
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	C85	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/739440 (Attorney Docket No. 59437US002)
	C86	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/740096 (Attorney Docket No. 59438US002)
	C87	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/73944 (Attorney Docket No. 59439US002)
	C88	U.S. Application entitled "Powder Feeding Method and Apparatus", filed December 18, 2003, having U.S. Serial No. 10/739233 (Attorney Docket No. 59440US002)
	C89	U.S. Application entitled "Agglomerate Abrasive Grain and a Method of Making the Same", filed February 11, 2004, having U.S. Serial No. 10/776156 (Attorney Docket No. 55304US016)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 2

Application Number	10/739439
Filing Date	December 18, 2003
First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	
Attorney Case Number	58797US002

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
~	A1	US- 3,625,717	12/07/1971	Grubba et al.	
~	A2	US- 4,316,964	02/23/1982	Lange	
1	A3	US- 4,757,036	07/12/1988	Kaar et al.	
	A4	US- 5,248,318 A	09/28/1993	Tamamaki et al.	
	A5	US- 5,413,974 A	05/09/1995	Yokoyama et al.	
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	A7	US- 5,516,348 A	05/14/1996	Conwell et al.	
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	A11	US- 5,721,188	02/24/1998	Sung et al.	
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~	A14	US- 6,277,161 B1	08/21/2001	Castro et al.	
~	A15	US- 6,287,353	09/11/2001	Celikkaya	
~	A16	US- 6,749,653 B2	06/15/2004	Castro et al.	

Foreign Patent Documents

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		Ctry. Code	Number-KindCode (if known)				
~	B1	DE	141 420	04/30/1980			X
~	B2	EP	0 227 374	07/01/1987			
~	B3	EP	0 236 507	09/16/1987			
~	B4	EP	0 666 238 B1	08/09/1995			
~	B5	EP	0 666 239 B1	08/09/1995			
~	B6	FR	2 118 026	07/28/1972			X
~	B7	GB	793,503	04/16/1958			
~	B8	GB	1,005,338	09/22/1965			
~	B9	GB	2 116 992	10/05/1983			

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Page 2 of 2

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10/739439

Filing Date

December 18, 2003

First Named Inventor

Rosenflanz, Anatoly Z.

Art Unit

1755

Examiner Name

Attorney Case Number

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	B10	GB	2 377 438 A	01/15/2003			
	B11	JP	61099665	05/17/1986			Abstract
	B12	JP	05-085821	04/06/1993			X
	B13	JP	06-171974	06/21/1994			X
	B14	JP	62-003041	01/09/1987			X
	B15	JP	2003--94414	04/03/2003			X

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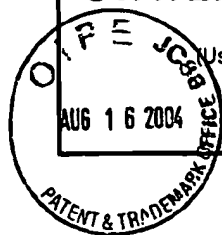
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	Aasland and McMillan, Nature 369, 633 (1994)	
	C2	Aguilar et al, "Melt Extraction Processing of Structural Y ₂ O ₃ -Al ₂ O ₃ Fibers", J. Eur. Ceram. Soc. 20 1091-1098 (2000)	
	C3	Gandhi, A.S. and Jarayam, V., "Pressure Consolidation of Amorphous ZrO ₂ -Al ₂ O ₃ by Plastic Deformation of Powder Particles", Acta Materialia, 50 (2002), 2137-2149	
	C4	Gonzalez, Eduardo J., et al., "High Pressure Compaction and Sintering of Nano-Size γ-Al ₂ O ₃ Powder", Materials and Manufacturing Processes Vol. 11, No. 6, 951-967, 1996	
	C5	Jantzen, C.M., Krepski, R.P., & Herman, H., "Ultra-Rapid Quenching of Laser-Method Binary and Unary Oxides", Mat. Res. Bull. 15, 1313-1326 (1980)	
	C6	Khor K.A., "Novel ZrO ₂ -Mullite Composites Produced By Plasma Spraying", Proceedings of the 15 th International Thermal Pray Conference, 25-29 May 1998, Nice, France	
	C7	Ray, C.S. and Day, D.E., "Determining the Nucleation Rate Curve for Lithium Disilicate Glass by Differential Thermal Analysis", J. Am. Ceram. Soc. 73(2) 439-442 (1990)	
	C8	Schmucker, M, et al., "Constitution of Mullite Glasses Produced by Ultra-Rapid Quenching of Plasma-Sprayed Melts", Journal of the European Ceramic Society 15 (1995) 1201-1205	
	C9	Sarjeant, P.T. & Roy, R., in <i>Reactivity of Solids</i> (ed. J. W. Mitchell, R.C., DeVries, R.W., Roberts and P. Cannon) 725-33 (John Wiley & Sons, Inc., New York 1969)	
	C10	Takamori, T., & Roy, R., "Rapid Crystallization of SiO ₂ -Al ₂ O ₃ Glasses", Journal of American Society, Vol. 56, No. 12, December 1973.	
	C11	Weber et al., "Synthesis and Optical Properties of Rare-Earth-Aluminum Oxide Glasses", J. Am. Ceram. Soc. 85(5) 1309-1311 (2002)	
	C12	Wilding, M.C., McMillan, P.F., "Polyamorphic Transitions in Yttria-Alumina Liquids", J. Non-Cryst. Solids. 293-295, 357-365 (2001)	

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Date Considered:


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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use as many sheets as necessary Page 1 of 1	Application Number	10/739439
	Filing Date	December 18, 2003
	First Named Inventor	Rosenflanz, Anatoly
	Art Unit	1755
	Examiner Name	
	Attorney Case Number	58797US002



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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
✓	C1	U.S. Application entitled "Ceramics, and Methods of Making and Using the Same", filed July 29, 2004 (Attorney Docket No. 59682US002)
✓	C2	U.S. Application entitled "Method of Making Ceramic Articles", filed July 29, 2004 (Attorney Docket No. 59435US002)
	C3	

*Examiner: 	Date Considered: 4/25/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 1

Application Number	10/739439
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First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	
Attorney Case Number	58797US002

U.S. Patent Documents

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		Doc. Number-(Kind Code if Known)			
	A1	US- 4,111,707	09/05/1978	Komorita et al.	
	A2	US- 4,789,501	12/06/1988	Day et al.	
	A3	US- 5,747,397	05/05/1998	McPherson et al.	
	A4	US- 6,251,813 B1	06/26/2001	Sato	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1	JP	60221338	11/06/1985			Abstract
	B2						
	B3						

OTHER DOCUMENTS

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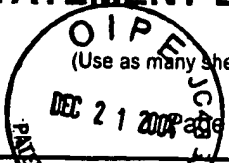
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 1 of 1	Application Number	NO. 8964 P. 4 10/739,439
	Filing Date	December 18, 2003
	First Named Inventor	Rosenfianz, Anatoly Z.
	Art Unit	1755
	Examiner Name	
	Attorney Case Number	68787US002

U.S. Patent Documents						
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Doc. Number (Kind Code if Known)				
✓	A1	US- 3,714,069	01/30/1973	Shaw et al.		
✓	A2	US- 3,717,683	02/20/1973	Shaw et al.		
↑	A3	US- 3,926,603	12/16/1975	Plesslinger et al.		
	A4	US- 4,218,253	08/19/1980	Dworak et al.		
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	A9	US- 5,213,591	05/25/1993	Celikkaya et al.		
	A10	US- 5,484,752	01/16/1996	Waku et al.		
	A11	US- 5,589,547	10/29/1996	Waku et al.		
✓	A12	US- 5,682,082	10/28/1997	Wei et al.		
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		Ctry. Code	Number-KindCode (if known)				
	B1	JP	50025608	03/18/1975			X
	B2	FR	2538370	08/26/1984			X

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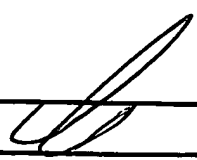
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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary) Page 1 of 1	Application Number	10/739439
	Filing Date	December 18, 2003
	First Named Inventor	Rosenflanz, Anatoly.
	Art Unit	1755
	Examiner Name	
	Attorney Case Number	58797US002

U.S. Patent Documents					
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~	A1	US- 4,271,011	06/02/1981	Spencer et al.	
~	A2	US- 5,178,335	01/12/1993	Mertens	
~	A3	US- 5,839,674	11/24/1998	Ellis	
~	A4	US- 6,513,739 B2	02/04/2003	Fritz et al.	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

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	B1					
	B2					

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~	C1	Standard: "Standard Specification for Wire Cloth and Sieves for Testing Purposes ¹ ", ASTM International, Designation: E 11-01, (date unknown but prior to filing date of instant application), pp. 1-5.	
~	C2	Standard: "Nominal Dimensions, Permissible Variations for Wire Cloth of Standard test Sieves (U.S.A.) Standard Series," ASTM International, Designation: E-11, (Date unknown but prior to filing date of instant application), pp.3-6.	
~	C3	Standard: "Standard Specification for Industrial Woven Wire Cloth ¹ ", ASTM International Designation: E 2016-99, (date unknown but prior to filing date of instant application), pp. 1-30	

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Page 1 of 1

Application Number	10739439
Filing Date	December 18, 2003
First Named Inventor	Rosenflanz, Anatoly
Art Unit	1755
Examiner Name	
Attorney Case Number	58797US002

U.S. Patent Documents

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~	A1	US- 4,182,437	01/08/1980	Roberts et al.	
~	A2	US- 4,552,199	11/12/1985	Onoyama et al.	
~	A3	US- 4,705,656	11/10/1987	Onoyama et al.	
~	A4	US- 5,215,583	08/01/1993	LaCourse et al.	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

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Application Number	107739439
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	A4	US-			
	A5	US-			
	A6	US-			
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	A8	US-			

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